

For Research Use Only

Phospho-P53 (Ser33) Recombinant monoclonal antibody

Catalog Number:87312-1-RR



Basic Information

Catalog Number:

87312-1-RR

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_000546

GeneID (NCBI):

7157

UNIPROT ID:

P04637

Full Name:

tumor protein p53

Calculated MW:

44 kDa

Observed MW:

53 kDa

Purification Method:

Protein A purification

CloneNo.:

252563C6

Recommended Dilutions:

WB: 1:5000-1:50000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human

Positive Controls:

WB : etoposide treated T-47D cells,

Background Information

TP53, also known as P53 and NY-CO-13, belongs to the p53 family and has 9 isoforms. In SDS-Page, the observed molecular weight is about 53 kDa. Phosphorylation of p53 at specific amino acid residues plays a crucial role in mediating its various functions, including its role as a transcription factor that regulates the expression of genes involved in the cellular response to stress and DNA damage. Upon severe DNA damage, p53 is phosphorylated at specific amino acid residues, becomes stabilized, and activated to induce apoptosis-related genes. To date, 10 kinases have been identified to phosphorylate p53 for apoptosis at specific serine/threonine residues in the N- and C-terminus domains. (PMID: 30191640)

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

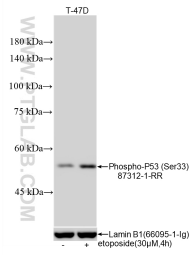
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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Selected Validation Data



Non-treated T-47D cells and etoposide treated T-47D cells were subjected to SDS PAGE followed by western blot with 87312-1-RR (Phospho-P53 (Ser33) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Lamin B1 (66095-1-Ig) antibody as a loading control.